Indian Institute of Remote Sensing Water Resources Department IIRS Outreach Programme

Two-week MOOC on

Advances in Geospatial Techniques for Monitoring and Modelling Hydro-meteorological Disasters during July 17-28, 2023

Date	Lecture (Evening 16.00 – 17.30 hrs)	Faculty
July 17, 2023	L1: Basics of Remote Sensing	Dr. Manu Mehta
	L2: Image Analysis: Visual and Digital	Dr Poonam Tiwari
July 18, 2023	L3: Platform and Sensors	Shri. Vinay Kumar
	L4: Global Navigation Satellite System	Dr. Anil Kumar
July 19, 2023	L5: Geographical Information System	GID Faculty
	L6: Overview of advances in earth observation data and geospatial techniques for hydro-meteorological hazards assessment	Dr. Praveen K. Thakur
	L7: Hydro-meteorological parameters retrieval using	Dr. Vaibhav Garg
July 20, 2023	satellite observations	D. A. S. Cl. 1
July 21, 2023	L8: Application of DEM in hydro-meteorological disasters assessment	Dr. Arpit Chouksey
	July 22-23, 2023: Holidays (Saturday-Sunay)	
	L9: Flood mapping, monitoring and hazard assessment using satellite data	Shri. Pankaj R. Dhote
July 24, 2023	L10: Urban Flood Hazards and Risk Modeling	Dr. Pramod Kumar
•	L11: Hydrological modelling and its applications in	Dr. Praveen K. Thakur
July 25, 2023	hydro-meteorological disasters assessment	
	L12: Hydrodynamic modelling and advances in	Pankaj R. Dhote
	geospatial data: its application in riverine flood hazard,	
July 26, 2023	GLOF, Dam Break and river flow monitoring	
1 1 27 2022	L13: Snow and glacier hazards: mapping, monitoring	Dr. Vaibhav Garg
July 27, 2023	and modelling	D DI I D WI
July 28, 2022	L14: Advance techniques in drought monitoring and	Dr. Bhaskar R. Nikam,
July 28, 2023	assessment using remote sensing data	

Faculty:

PK: Dr. Pramod Kumar **AK**: Dr. Anil Kumar

PKT: Dr. Praveen Kumar Thakur **BRN**: Dr. Bhaskar R. Nikam , EDPO, Bengaluru

VG: Dr. Vaibhav Garg

MM: Dr. Manu Mehta

VK: Shri Vinay Kumar

VK: Dr. Arpit Chouksey

PRD: Mr. Pankaj R. Dhote

Course Director:

Dr. Praveen Kumar Thakur Scientist / Engineer SG Head, WRD, IIRS

Through: Dr. Pramod Kumar GD, HUSG and Dean (A) Course Coordinator:

Mr. Pankaj Ramji Dhote Scientist / Engineer SE